

SPDP Course Catalogue

ID	Provider Alias	SPDP Level	Title	Course Description	Suffix URL	Course Length	Additional Information	Keywords
The following extraction from the DCMC Software Professional Development Program Interim Training Guide enumerates all DCMC SPDP courses available to our Software Professionals. There is some duplication with SEI, AFIT, etc. curricula.								
F/M32A	AQOF	0-1	<i>SW Surveillance Concepts for Commanders</i>	Overview of the SW acquisition process and associated surveillance mission.				Commanders, SW acquisition, surveillance
F/M32B	AQOF	0-2	<i>SW Surveillance Concepts for Managers</i>	Intro overview of the SW acquisition process and associated surveillance mission. Topics include resource ID, staffing, training, contract reporting, surveillance implementation, DoD perspectives, specialized activities, and internal controls.				resource ID, staffing, training, internal controls
			LEVEL I COURSES					
Q/E12	Colleges	I-1	Digital Principles and Applications	Provides students with the basic tools needed to perform QA of digitally controlled electronic equipment.		3 Semester Hours	Computer Logic Circuits I. Local college or university. This course is designed to introduce the student to the control of digital processes and design of digital logic circuits. Equivalency may be granted.	Digital devices, data processing
Q/S38	Colleges	I-2	Microprocessor Fundamentals	Topics include: number systems and codes, microcomputer basics, structured programming and top-down design.			Updated course. Prerequisite Q/E12. Equivalency may be granted.	Instruction sets, addressing methods, input-output architectures, central processor organization, machine language, and assembly language, computer system operations, programming techniques, operating system interfacing, organization of assemblers and loaders.
F/XOA	Colleges	I-3	Introduction to Structured Programming	Comparison of language features. Language syntax so students can compare similar constructs of a language. The basic building blocks of a language will be demonstrated through simple practical exercises.			Completion of Q/S38, Q/E12. Equivalency may be granted.	Structures programming, syntax
F/SSWORK1	DCMDs	I-4	<i>SSF Mentorship Tasks 1-16.</i>	SSF Mentorship Tasks.			Includes One-Book, DoD/DLA Policy, 2167A, CDRLs, CM, CASE TOOLS, WBS, COTS	mentoring, software surveillance, mandatory
F/SSF	AQOF	I-5	<i>Software Surveillance Fundamentals</i>	Basic knowledge of software surveillance			Requires Q/S38, F/SSWORK1, SSF.	Surveillance, PROCAS
			LEVEL II COURSES					
F/SXX	Colleges	II-1	Introduction to Design and Structured Analysis	1.preliminary investigation;2.systems analysis;3.design;4.development.			Heuristics, data flow diagrams & language impacts. Level I Certification required.	Structured Analysis, designClass
F/ADA	AMEC, CBT	II-2	ADA Programming (Pseudocourse)	Provides knowledge of ADA-specific programming			AMEC/DCMDs/College/Computer-Based Training(CBT). Equivalency may be granted.	ADA Programming, CBT, Pseudocourse
F/ADA-CBT	Kessler AFB	II-2	ADA Applied Programming Computer-Based Training	Teaches the more advanced features of ADA.			Kessler AFB Technical Training Group Disks available from each DCMC Workforce Development Directorate. Approximately 26 hours. Equivalency may be granted.	ADA, CBT, Programming
Q/X34	Colleges, Ktrs	II-2	ADA Language	Enables the student to read and understand an ADA program		40-80 Hours	Commercial computer software houses, professional societies, or colleges and universities. Equivalency may be granted.	ADA Language
D/AMEC-253	SEL RRAD	II-2	ADA Programming-Basic Course	Comprehensive presentation of most of the features of the ADA language.		5 Days	School of Engineering & Logistics, Red River Army Depot, Texarkana, TX 75507-5000, (903) 334-3334, Mark Oestmann. Equivalency may be granted. Successful completion of Level I Certification Requirements.	ADA, Basic Course
F/SSWORK2	DCMDs	II-3	<i>SSA Mentorship Tasks 1-10.</i>	Hands on experience under the guidance of a more experienced mentor in all facets of software development.			Includes One-Book, DoD/DLA Policy, 2167A, CDRLs, CM, CASE TOOLS, WBS, COTS	mentoring, One-Book, 2167A, WBS
F/SSA	AQOF	II-4	<i>Software Surveillance Applications</i>	Strategies & Techniques to perform CAS.			Level I Certification & LV II SSA Mentorship Tasks.	SSA, Surveillance
F/SSWORK3	DCMDs	II-5	<i>SSE Mentorship Tasks</i>	Hands on experience with a mentor on all aspects of software development.			Revic, Metrics, Risk, Cost & Schedule, Software Quality Evaluation.	Mentoring, SSE, Risk, Revic, Cost & Schedule
F/SSE	AQOF	II-6	<i>Software Surveillance Evaluations</i>	Hands-on exercises using both simulated contractor data and tool sets from SSA course. Emphasis placed on in-depth surveillance and metrics analysis planning, measurement of cost analysis, and evaluation of the contractor's software process improvement				SSE, SSA, metrics analysis, cost analysis
F/TRANS	AQOF	II-8	<i>Software Surveillance Transition (SSA + SSE)--Discontinued as of 1 Oct 96</i>	To transition current SW Professionals to the SPDP for Certification. Comprehensive review of all basic courses.			Persons eligible for the Transition Plan. No equivalency Includes a description of SW Process Assessment. Dr. Emanuel Baker, Software Engineering Consultants, Inc., (310) 278-7241	Transition, certification, review
F/CMM	SECI	II-7	Capability Maturity Model	Describes the CMM goals and practices. It will include SCE, SDCCR and SDCE evaluation methodologies.		2 Days		CMM, SEI, PROCAS, SPA
F/CMM	ISD	II-7	Capability Maturity Model	Describes the CMM goals and practices.		3 Days	Includes a description of SW Process Assessment.	CMM, SEI, PROCAS, SPA
F/WRCT	AQOF	II-8	<i>Software Surveillance Recertification</i>	To recertify Level II and III software professionals every 2 years, in the SW Surveillance Skill area.				Recertification, SW Surveillance

ID	Provider Alias	SPDP Level	Title	Course Description	Suffix URL	Course Length	Additional Information	Keywords
LEVEL III COURSES								
F/ISO 001	AQOF	III-ISO	Introduction to ISO 9000/ANSI/ASQC Q90 Quality Series Std.	Provides understanding of terminology, intent, interrelationships and the impact of using the ISO Series STDs within DLA.				ISO 9000/ANSI/ASQC Q90 Quality Series STDs
F/ISO 9003	AQOF	III-ISO	Introduction to ISO 9000-3 Guidelines for Software Quality	Provides an overview of 9000-3 Guidelines for Software Quality, general requirements for a certifies software quality program, and the comparison of software standards in software quality.				ISO 9000-3
F/X5	QNET	III-ISO	ISO 9000-3 Assessor Training	Topics discussed include the TickIT scheme, assessment, role and requirements of the auditor, auditor skills, improving auditor techniques, and planning and carrying out an assessment. A live audit is included in this course.			QNET, Yvonne Halpaus, Elk River, MN, (612) 441-0899.	ISO 9000-3, TickIT
F/X11	QNET	III-ISO	ISO 9000 Lead Assessor Ticket Course				QNET, Yvonne Halpaus, Elk River, MN, (612) 441-0899.	
F/X2	SEI	III-SEI	SW Engineering Institute Resident Affiliate Program	Associate works with academia, industry and the government in a "think tank" type environment.				SEI, affiliate, Level III
F/X3	AFIT	III-SE	AFIT Software Professional Development Program	Five SW Engineering courses providing an intensive study in the principles and practices of SW Engineering.		300 Hours	Air Force Institute of Technology, AFIT/LSS (SPDP) Wright-Patterson Air Force Base, OH 45433-7765 DSN 467-4550. Completion of 5 AFIT SPDP course sequence.	SW Engineering, Level III, BA degree, HOL
F/SWE	Colleges	III-SE-1	Software Engineering (new/proposed reqmt)	Takes students through the entire software development lifecycle.			Prerequisites: Level I certification, F/SXX, F/Ada, F/SSA, F/SSE, and F/CMM. An equivalency may be granted.	software engineering, structured design and programming, metrics, software development requirements.
D/CSE492	AFIT	III-SE-2	Software Systems Engineering	Introduces the concepts of SW Engineering, Systems Engineering, and Life Cycle Development			Admission to AFIT SPDP.	SW Engineering, Systems Eng., Life Cycle
D/CSE493	AFIT	III-SE-3	Software Requirements and Design Engineering	Addresses the activities of requirements analysis and architectural-level SW design.			Successful completion of CSE492.	SW Design, Requirements Analysis
D/CSE494	AFIT	III-SE-4	Object Oriented Analysis and Design.	Presents object-oriented requirements analysis and software design.			Successful completion of CSE493.	Object-oriented, design, requirements analysis
D/CSE495	AFIT	III-SE-5	Software Creation and Maintenance	Finishes the lecture-based portion of the material with detailed design, software generation, and software maintenance.			Successful completion of CSE494. Computer programming experience and basic knowledge of data structures and algorithm analysis.	Detailed Desin, SW generation, maintenance
D/CSE496	AFIT	III-SE-6	Software Engineering Practicum	Completes the series with a three-week long in-residence course which provides the students an opportunity to apply what they have learned from the preceding four courses in a state-of-the-art SW Engineering Laboratory.			Successful completion of CSE495.	Practicum, in-residence
F/X4	ISD	III-SCE-1	Software Capability Evaluation (SCE)	Level III course that involves lecture, case studies, and hands -on exercises. Demonstration of use of the evaluation tool/criteria is emphasized throughout the presentation.			Integrated Systems Diagnostics	SCE, Level III, risk identification tool
F/X4R		III-SCE-2	SCE v3.0 Refresher Training					
F/X4U		III-SCE-3	SCE v3.0 Upgrade Training					
F/X6		III-SCE-4	Participate in SCEs					
F/X4LE		III-SCE-5	SCE Lead Evaluator Certification Training					
F/X6LE		III-SCE-6	Participate as SCE Lead Evaluator					
F/X4LER		III-SCE-7	SCE Lead Evaluator Recertification Training					
F/X7		III-Support-1	DoD, Agency, Academia Working Groups					
F/X8		III-Support-2	HQ DCMC S/W policy Working Groups					
F/X9		III-Support-3	SME for S/W course development					
F/Mentor		III-Support-4	Mentor Certification Training					
F/X10		III-Support-5	Source Selection Evaluation Board(s)					
Q/U06	AQOF	III-Support-6	DCMC Quality Assurance Support of NASA	Overview of QA support requirements delegated by NASA to the DCMAOs/DPROs and their relationship to the QA requirements specified by contract. Familiarity with NASA handbooks.		32 Hours		NASA, Handbooks
Q/U06B	AQOF	III-Support-7	DCMC Support of NASA Update	Provides a basic understanding of NASA NHB5300.4 (2B-2) requirements for the management of the Government Quality Assurance function for NASA contracts.		8 Hours		NASA Update, NHB5300.4 (2B-2)
F/X14		III-Support-8	Metrics/Management Indicators					
F/X15		III-Support-9	S/W Risk Assessment/Mitigation					
Q/S32	AQOF	III-HW-1	Automatic Test Equipment (ATE)	Covers the basic principles of ATE. Presents ATE terms and stresses how the student can recognize the requirements of ATE.				ATE
Q/X31	Colleges	III-PROG-1	Beginners All-Purpose Symbolic Instruction Code (Basic)	Enables students to design, write, and debug simple BASIC programs. Topics include operators, constraints, literal strings, variables, expressions, branching, looping, arrays and I/O statements.				Basic Programming
Q/X35	Colleges	III-PROG-2	Assembly Language	Provides a general understanding of Assembly and enables the student to read an Assembly program.		40 Hours	Colleges and Universities. Prerequisites: Q/S38 or an equivalent fundamentals or programming course, or any machine language oriented course. Equivalency may be granted.	Assembly, insruction sets, macroinstructions

SPDP Course Catalogue

ID	Provider Alias	SPDP Level	Title	Course Description	Suffix URL	Course Length	Additional Information	Keywords
Q/X37	AF	III-PROG-3	Abbreviated Test Language For All Systems (ATLAS)	A detailed examination of the most common ATE language.		200 hours	Prerequisites: Q/S32,Q/S55,Q/E12 and Q/X31. Equivalency may be granted. Commercial SW houses.	ATLAS, ATE, UUT, TRD, TPS
Q/X36	Colleges	III-PROG-4	Formula Translation (FORTRAN)	Programming Course				FORTRAN
Q/X39	Colleges	III-PROG-5	Jules' Own Version of the International Algebraic Language (JOVIAL)	Covers the instructions and practices of the JOVIAL language.				JOVIAL
F/X12		III-PROG-6	CASE Tools & Development Environments					
F/X13		III-PROG-7	Artificial Intelligence					
F/X16		III-PROG-8	System Integration					
F/X17		III-PROG-9	Object Oriented Programming (OOP)					
F/X18		III-PROG-10	Software Security					
F/X19		III-PROG-11	High Order Language (Ada 9x, C/C++)					
F/X20		III-PROG-12	Data Transmission/Encryption					
F/X21		III-PROG-13	Compiler Development					
F/X22		III-PROG-14	Operating System Development/Expertise					
Q/X62	Various Gov't.	III-PROG-15	Software Reliability	Covers reliability requirements of DoDI 5000.40, Reliability and Maintainability.		16 Hours		R&M, DoDI 5000.40
F/WRCT	AQOF	III-	<i>Software Surveillance Recertification</i>	To recertify Level II and III software professionals every 2 years, in the SW Surveillance Skill area.				Recertification, SW Surveillance

Media
Class
Class
Class
Class
Class
OJT
Class
Class
Class
CBT
Class
Class
OJT
Class
OJT
Class
Class
Class
Class
Class
Class

Media
Class
Class
Class
R&D
Class
Class
Class
Class
Class
Class
Lab
Class
Class
Class
Class
Class
Class

Media
Class
Class
Class
Class
Class